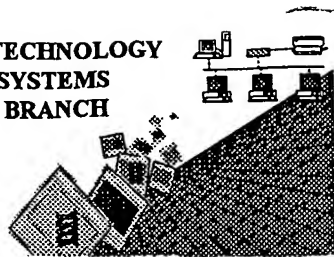


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/018,383
Source: PU/10
Date Processed by STIC: 6/4/2002

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER**
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Revised 01/29/2002



PCT10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/018,383

DATE: 06/04/2002

TIME: 14:56:06

Input Set : A:\X11600.ST25.txt

Output Set: N:\CRF3\06042002\J018383.raw

**Does Not Comply
Corrected Diskette Needed**

pr 3-b

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3 <110> APPLICANT: Becker, Gerald
4      Hale, John
5      Heath, William
6      Johnstone, Edward
7      Little, Sheila
8      Tu, Yuan
9      Yeh, Wu-Kuang
10     Yin, Tinggui
12 <120> TITLE OF INVENTION: Amyloid Precursor Protein Protease and Related Nucleic Acid
Compounds
14 <130> FILE REFERENCE: X-11600
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/018,383
C--> 16 <141> CURRENT FILING DATE: 2002-03-05
16 <160> NUMBER OF SEQ ID NOS: 5
18 <170> SOFTWARE: PatentIn version 3.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 1683
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapiens
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26 <221> NAME/KEY: CDS
27 <222> LOCATION: (25)..(1629)
28 <223> OTHER INFORMATION:
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32 <221> NAME/KEY: misc_feature
33 <222> LOCATION: (25)..(1629)
34 <223> OTHER INFORMATION: n = any nucleotide A, C, G, or T
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39                      Met Leu Arg Arg Arg Gly Ser Pro Gly
40                      1                      5
42 atg ggt gtg cat gtg ggt gca gcc ctg gga gca ctg tgg ttc tgc ctc      99
43 Met Gly Val His Val Gly Ala Ala Leu Gly Ala Leu Trp Phe Cys Leu
44 10                      15                      20                      25
46 aca gga gcc ctg gag gtc cag gtc cct gaa gac cca gtg gtg gca ctg      147
47 Thr Gly Ala Leu Glu Val Gln Val Pro Glu Asp Pro Val Val Ala Leu
48                      30                      35                      40
50 gtg ggc acc gat gcc acc ctg tgc tgc tcc ttc tcc cct gag cct ggc      195
51 Val Gly Thr Asp Ala Thr Leu Cys Cys Ser Phe Ser Pro Glu Pro Gly
52                      45                      50                      55
54 ttc agc ctg gca cag ctc aac ctc atc tgg cag ctg aca gat acc aaa      243
55 Phe Ser Leu Ala Gln Leu Asn Leu Ile Trp Gln Leu Thr Asp Thr Lys
56                      60                      65                      70
58 cag ctg gtg cac agc ttt gct gag ggc cag gac cag ggc agc gcc tat      291

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RAW SEQUENCE LISTING

DATE: 06/04/2002

PATENT APPLICATION: US/10/018,383

TIME: 14:56:06

Input Set : A:\X11600.ST25.txt

Output Set: N:\CRF3\06042002\J018383.raw

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60      75                      80                      85
62 gcc aac cgc acg gcc ctc ttc ccg gac ctg ctg gca cag ggc aac gca      339
63 Ala Asn Arg Thr Ala Leu Phe Pro Asp Leu Leu Ala Gln Gly Asn Ala
64 90                      95                      100                      105
66 tcc ctg agg ctg cag cgc gtg cgt gtg gcg gac gag ggc agc ttc acc      387
67 Ser Leu Arg Leu Gln Arg Val Arg Val Ala Asp Glu Gly Ser Phe Thr
68      110                      115                      120
70 tgc ttc gtg agc atc cgg gat ttc ggc agc gct gcc gtc agc ctg cag      435
71 Cys Phe Val Ser Ile Arg Asp Phe Gly Ser Ala Ala Val Ser Leu Gln
72      125                      130                      135
74 gtg gcc gct ccc tac tcg aag ccc agc atg acc ctg gag ccc aac aag      483
75 Val Ala Ala Pro Tyr Ser Lys Pro Ser Met Thr Leu Glu Pro Asn Lys
76      140                      145                      150
78 gac ctg cgg cca ggg gac acg gtg acc atc acg tgc tcc agc tac cag      531
79 Asp Leu Arg Pro Gly Asp Thr Val Thr Ile Thr Cys Ser Ser Tyr Gln
80      155                      160                      165
82 ggc tac cct gag gct gag gtg ttc tgg cag gat ggg cag ggt gtg ccc      579
83 Gly Tyr Pro Glu Ala Glu Val Phe Trp Gln Asp Gly Gln Gly Val Pro
84 170                      175                      180                      185
86 ctg act ggc aac gtg acc acg tcg cag atg gcc aac gag cag ggc ttg      627
87 Leu Thr Gly Asn Val Thr Thr Ser Gln Met Ala Asn Glu Gln Gly Leu
88      190                      195                      200
90 ttt gat gtg cac agc atc ctg cgg gtg gtg ctg ggt gca aat ggc acc      675
91 Phe Asp Val His Ser Ile Leu Arg Val Val Leu Gly Ala Asn Gly Thr
92      205                      210                      215
94 tac agc tgc ctg gtg cgc aac ccc gtg ctg cag cag gat gcg cac agc      723
95 Tyr Ser Cys Leu Val Arg Asn Pro Val Leu Gln Gln Asp Ala His Ser
96      220                      225                      230
98 tct gtc acc atc aca ccc cag aga agc ccc aca gga gcc gtg gag gtc      771
99 Ser Val Thr Ile Thr Pro Gln Arg Ser Pro Thr Gly Ala Val Glu Val
100      235                      240                      245
102 cag gtc cct gag gac ccg gtg gtg gcc cta gtg ggc acc gat gcc acc      819
103 Gln Val Pro Glu Asp Pro Val Val Ala Leu Val Gly Thr Asp Ala Thr
104 250                      255                      260                      265
106 ctg cgc tgc tcc ttc tcc ccc gag cct ggc ttc agc ctg gca cag ctc      867
107 Leu Arg Cys Ser Phe Ser Pro Glu Pro Gly Phe Ser Leu Ala Gln Leu
108      270                      275                      280
110 aac ctc atc tgg cag ctg aca gac acc aaa cag ctg gtg cac agt ttc      915
111 Asn Leu Ile Trp Gln Leu Thr Asp Thr Lys Gln Leu Val His Ser Phe
112      285                      290                      295
114 acc gaa ggc cgg gac cag ggc agc gcc tat gcc aac cgc acg gcc ctc      963
115 Thr Glu Gly Arg Asp Gln Gly Ser Ala Tyr Ala Asn Arg Thr Ala Leu
116      300                      305                      310
118 ttc ccg gac ctg ctg gca caa ggc aat gca tcc ctg agg ctg cag cgc      1011
119 Phe Pro Asp Leu Leu Ala Gln Gly Asn Ala Ser Leu Arg Leu Gln Arg
120      315                      320                      325
122 gtg cgt gtg gcg gac gag ggc agc ttc acc tgc ttc gtg agc atc cgg      1059
123 Val Arg Val Ala Asp Glu Gly Ser Phe Thr Cys Phe Val Ser Ile Arg

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RAW SEQUENCE LISTING

DATE: 06/04/2002

PATENT APPLICATION: US/10/018,383

TIME: 14:56:06

Input Set : A:\X11600.ST25.txt

Output Set: N:\CRF3\06042002\J018383.raw

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124 330          335          340          345
126 gat ttc ggc agc gct gcc gtc agc ctg cag gtg gcc gct ccc tac tcg      1107
127 Asp Phe Gly Ser Ala Ala Val Ser Leu Gln Val Ala Ala Pro Tyr Ser
128          350          355          360
130 aag ccc agc atg acc ctg gag ccc aac aag gac ctg cgg cca ggg gac      1155
131 Lys Pro Ser Met Thr Leu Glu Pro Asn Lys Asp Leu Arg Pro Gly Asp
132          365          370          375
134 acg gtg acc atc acg tgc tcc agc tac cgg ggc tac cct gag gct gag      1203
135 Thr Val Thr Ile Thr Cys Ser Ser Tyr Arg Gly Tyr Pro Glu Ala Glu
136          380          385          390
138 gtg ttc tgg cag gat ggg cag ggt gtg ccc ctg act ggc aac gtg acc      1251
139 Val Phe Trp Gln Asp Gly Gln Gly Val Pro Leu Thr Gly Asn Val Thr
140          395          400          405
W--> 142 acg tcg cag atg gcc aac gag cag ggc ttg ttt nnn nnn nnn nnn nnn      1299
W--> 143 Thr Ser Gln Met Ala Asn Glu Gln Gly Leu Phe Xaa Xaa Xaa Xaa Xaa
144 410          415          420          425
W--> 146 nnn nnn nnn nnn nnn nnn nnn nnn nnn nnn nnn nnn nnn nnn nnn      1347
W--> 147 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
148          430          435          440
W--> 150 nnn nnn nnn nnn nnn nnn gat gcg cac ggc tct gtc acc atc aca ggg      1395
W--> 151 Xaa Xaa Xaa Xaa Xaa Xaa Asp Ala His Gly Ser Val Thr Ile Thr Gly
152          445          450          455
154 cag cct atg aca ttc ccc cca gag gcc ctg tgg gtg acc gtg ggg ctg      1443
155 Gln Pro Met Thr Phe Pro Pro Glu Ala Leu Trp Val Thr Val Gly Leu
156          460          465          470
158 tct gtc tgt ctc att gca ctg ctg gtg gcc ctg gct ttc gtg tgc tgg      1491
159 Ser Val Cys Leu Ile Ala Leu Leu Val Ala Leu Ala Phe Val Cys Trp
160          475          480          485
162 aga aag atc aaa cag agc tgt gag gag gag aat gca gga gct gag gac      1539
163 Arg Lys Ile Lys Gln Ser Cys Glu Glu Glu Asn Ala Gly Ala Glu Asp
164 490          495          500          505
166 cag gat ggg gag gga gaa ggc tcc aag aca gcc ctg cag cct ctg aaa      1587
167 Gln Asp Gly Glu Gly Glu Gly Ser Lys Thr Ala Leu Gln Pro Leu Lys
168          510          515          520
170 cac tct gac agc aaa gaa gat gat gga caa gaa ata gcc tga      1629
171 His Ser Asp Ser Lys Glu Asp Asp Gly Gln Glu Ile Ala
172          525          530
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177 <210> SEQ ID NO: 2
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180 <213> ORGANISM: Homo sapiens
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184 <222> LOCATION: (421)..(421)
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Thr, Ile
186 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
187 Tyr, Trp, Cys, or Phe.
189 <220> FEATURE:

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Xaa can only represent an actual amino acid, not a stop codon

6/4/02

RAW SEQUENCE LISTING

DATE: 06/04/2002

PATENT APPLICATION: US/10/018,383

TIME: 14:56:06

Input Set : A:\X11600.ST25.txt

Output Set: N:\CRF3\06042002\J018383.raw

190 <221> NAME/KEY: misc_feature
 191 <222> LOCATION: (422)..(422)
 192 <223> OTHER INFORMATION: The 'Xaa' at location 422 stands for Lys, Asn, Arg, Ser,
 Thr, Ile
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 194 Tyr, Trp, Cys, or Phe. *low*
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 197 <221> NAME/KEY: misc_feature
 198 <222> LOCATION: (423)..(423)
 199 <223> OTHER INFORMATION: The 'Xaa' at location 423 stands for Lys, Asn, Arg, Ser,
 Thr, Ile
 200 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
 201 Tyr, Trp, Cys, or Phe.
 203 <220> FEATURE:
 204 <221> NAME/KEY: misc_feature
 205 <222> LOCATION: (424)..(424)
 206 <223> OTHER INFORMATION: The 'Xaa' at location 424 stands for Lys, Asn, Arg, Ser,
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 207 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
 208 Tyr, Trp, Cys, or Phe.
 210 <220> FEATURE:
 211 <221> NAME/KEY: misc_feature
 212 <222> LOCATION: (425)..(425)
 213 <223> OTHER INFORMATION: The 'Xaa' at location 425 stands for Lys, Asn, Arg, Ser,
 Thr, Ile
 214 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
 215 Tyr, Trp, Cys, or Phe.
 217 <220> FEATURE:
 218 <221> NAME/KEY: misc_feature
 219 <222> LOCATION: (426)..(426)
 220 <223> OTHER INFORMATION: The 'Xaa' at location 426 stands for Lys, Asn, Arg, Ser,
 Thr, Ile
 221 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
 222 Tyr, Trp, Cys, or Phe.
 224 <220> FEATURE:
 225 <221> NAME/KEY: misc_feature
 226 <222> LOCATION: (427)..(427)
 227 <223> OTHER INFORMATION: The 'Xaa' at location 427 stands for Lys, Asn, Arg, Ser,
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 228 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
 229 Tyr, Trp, Cys, or Phe.
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 233 <222> LOCATION: (428)..(428)
 234 <223> OTHER INFORMATION: The 'Xaa' at location 428 stands for Lys, Asn, Arg, Ser,
 Thr, Ile
 235 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
 236 Tyr, Trp, Cys, or Phe.
 238 <220> FEATURE:
 239 <221> NAME/KEY: misc_feature
 240 <222> LOCATION: (429)..(429)
 241 <223> OTHER INFORMATION: The 'Xaa' at location 429 stands for Lys, Asn, Arg, Ser,
 Thr, Ile

242 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
243 Tyr, Trp, Cys, or Phe.
245 <220> FEATURE:
246 <221> NAME/KEY: misc_feature

RAW SEQUENCE LISTING

DATE: 06/04/2002

PATENT APPLICATION: US/10/018,383

TIME: 14:56:06

Input Set : A:\X11600.ST25.txt

Output Set: N:\CRF3\06042002\J018383.raw

247 <222> LOCATION: (430)..(430)

Thr, Ile 248 <223> OTHER INFORMATION: The 'Xaa' at location 430 stands for Lys, Asn, Arg, Ser,
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250 Tyr, Trp, Cys, or Phe.

252 <220> FEATURE:

253 <221> NAME/KEY: misc_feature

254 <222> LOCATION: (431)..(431)

Thr, Ile 255 <223> OTHER INFORMATION: The 'Xaa' at location 431 stands for Lys, Asn, Arg, Ser,
256 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
257 Tyr, Trp, Cys, or Phe.

259 <220> FEATURE:

260 <221> NAME/KEY: misc_feature

261 <222> LOCATION: (432)..(432)

Thr, Ile 262 <223> OTHER INFORMATION: The 'Xaa' at location 432 stands for Lys, Asn, Arg, Ser,
263 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
264 Tyr, Trp, Cys, or Phe.

266 <220> FEATURE:

267 <221> NAME/KEY: misc_feature

268 <222> LOCATION: (433)..(433)

Thr, Ile 269 <223> OTHER INFORMATION: The 'Xaa' at location 433 stands for Lys, Asn, Arg, Ser,
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271 Tyr, Trp, Cys, or Phe.

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274 <221> NAME/KEY: misc_feature

275 <222> LOCATION: (434)..(434)

Thr, Ile 276 <223> OTHER INFORMATION: The 'Xaa' at location 434 stands for Lys, Asn, Arg, Ser,
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278 Tyr, Trp, Cys, or Phe.

280 <220> FEATURE:

281 <221> NAME/KEY: misc_feature

282 <222> LOCATION: (435)..(435)

Thr, Ile 283 <223> OTHER INFORMATION: The 'Xaa' at location 435 stands for Lys, Asn, Arg, Ser,
284 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
285 Tyr, Trp, Cys, or Phe.

287 <220> FEATURE:

288 <221> NAME/KEY: misc_feature

289 <222> LOCATION: (436)..(436)

Thr, Ile 290 <223> OTHER INFORMATION: The 'Xaa' at location 436 stands for Lys, Asn, Arg, Ser,
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292 Tyr, Trp, Cys, or Phe.

294 <220> FEATURE:

295 <221> NAME/KEY: misc_feature

296 <222> LOCATION: (437)..(437)

Thr, Ile 297 <223> OTHER INFORMATION: The 'Xaa' at location 437 stands for Lys, Asn, Arg, Ser,
298 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,

299 •Tyr, Trp, Cys, or Phe.
301 <220> FEATURE:
302 <221> NAME/KEY: misc_feature
303 <222> LOCATION: (438)..(438)

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/018,383

DATE: 06/04/2002
TIME: 14:56:07

Input Set : A:\X11600.ST25.txt
Output Set: N:\CRF3\06042002\J018383.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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